

TS 600R THRU TS 608R

GLASS PASSIVATED JUNCTION FAST SWITCHING RECTIFIER VOLTAGE - 50 to 800 Volts
CURRENT - 6.0 Amperes

FEATURES

Plastic package has Underwriters Laboratory
Flammab ity Classification 94V-O Ut izing
Flame Retardant Epoxy Molding Compound
Glass passivated junction in P600 package
6 ampere operation at T_A=60 ¢J with no thermal runaway
Exceeds environmental standards of MIL-S-19500/228
Fast switching for high efficiency

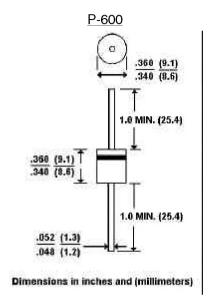
MECHANICAL DATA

Case: Molded plastic, P600

Terminals: axial leads, solderable per MIL-STD-202,

Method 208
Mounting position: Any

Weight: 0.07 ounce, 2.1 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ¢J ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	TS 600R	TS 601 R	TS 602R	TS 604R	TS 606R	608R	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	V
Maximum RMS Voltage	35	70	140	280	420	560	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	V
Maximum Average Forward Rectified Current	6.0						Α
@T _A =60 ¢J							
Peak Forward Surge Current 8.3ms single half sine	250						Α
wave I _{FSM} superimposed on rated load(JECEC method)							
Maximum Forward Voltage at 6.0A DC	1.3						V
Maximum DC Reverse Current at Rated DC T _a =25 ¢J	5.0						£gA
Blocking Voltage @ $T_a=100 \text{ ¢J}$	500						
Maximum Reverse Recovery Time(Note 1)	150	150	150	150	250	500	ns
Typical Junction capacitance (Note 2)		300					
Typical Thermal Resistance at 0.375"(9.5mm)" lead		10.0					
length R £KJA							
Operating and Storage Temperature Range T_A , T_J	-55 to +150						¢J

NOTES:

- 1. Reverse Recovery Test Conditions: I_F=.5A, I_R=1A, Irr=.25A
- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts

RATING AND CHARACTERISTIC CURVES TE 600R THRU TE 608R

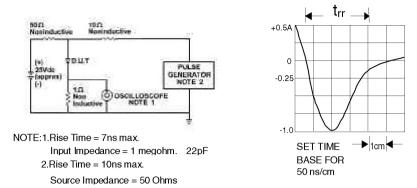
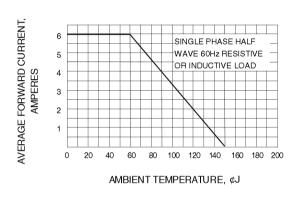


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

250



DEAK FORWARD SURGE CURRENT, AMPERES 200 1 2 4 6 8 10 50 40 60 80 100

Fig. 2-FORWARD DERATING CURVE

Fig. 3-PEAK FORWARD SURGE CURRENT

NUMBER OF CYCLES AT 60Hz

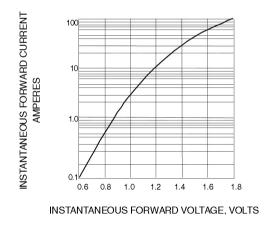


Fig. 4-TYPICAL FORWARD CHARACTERISTIC